

WASHINGTON, D.C. 20460

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Date: October 8, 2012	EPA Reg No./ File Symbol 9804-9	Page 1 of 3
Applicant's/Registrant's Name and Address:  Rio-Cide International, Inc. O. Box 722170 Norman, OK 73070-8644	Product: ProOxine	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
30.1700	Preliminary Analysis		Bio-Cide International, Inc.	OWN	
830.1.750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN	
830.1800	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302	Color	48520102	Bio-Cide International, Inc.	OWN	
830.6303 ••••	Physical State	48520102	Bio-Cide International, Inc.	OWN	
830.6304	Odor	48520102	Bio-Cide International, Inc.	OWN	
830.6314	Oxidation/Reduction	44404003	Bio-Cide International, Inc.	OWN	
830.6315	Flammability				NR-Product does not contain combustible liquids

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Name and Title Connie Welch, Agent

Date 10/08/2012



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# Date: October 8, 2012 EPA Reg No./ File Symbol 9804-9 Applicant's/Registrant's Name and Address: Product: ProOxine ProOxine Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6316	Explodabilty				NR-Product is not potentially explosive
830.6317	Storage Stability	44404004	Bio-Cide International, Inc.	OWN	
830.6319	Miscibility			OWN	NR-Product is not an emulsifiable liquid to be diluted with petroleum solvents
830.6320	Corrosion Characteristics	44404004	Bio-Cide International, Inc.	OWN	
830.6321	Dielectric Breakdown				NR-Product is not an insulating conductive
830.7000	pH	48520102	Bio-Cide International, Inc.	OWN	
830.7100	Viscosity	48520102	Bio-Cide International, Inc.	OWN	
830.7300	Density/Relative Density	48520102	Bio-Cide International, Inc.	OWN	
870.1100	Acute Oral	46369701	Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal	46369701	Bio-Cide International, Inc.	OWN	

Signature	Name and Title Connie Welch, Agent	Date 10/08/2012
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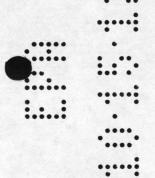


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# Date: October 8, 2012 EPA Reg No./ File Symbol 9804-9 Applicant's/Registrant's Name and Address: Product: ProOxine Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation	46110402	Bio-Cide International, Inc.	OWN	
870.2500	Acute Dermal Irritation	46369702	Bio-Cide International, Inc.	OWN	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER	
870.2400 •• •	Acute Eye Irritation	46133801	Bio-Cide International, Inc.	OWN	



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Name and Title Connie Welch, Agent Date 10/08/2012



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#### **DATA MATRIX**

Date: March 13, 2013	EPA Reg No./ File Symbol 9804-9		: :	Page 1 of 3	
Applicant's/Registrant's Name and Address: Bio-Cide International, Inc. P.O. Box 722170  Yorman, OK 73070-8644	Product: ProOxine	••••	•		
Ingredient: Chlorine Dioxide					

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
830.1700	Preliminary Analysis	48970801	Bio-Cide International, Inc.	OWN	
320.1750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN	
<b>30.1800</b>	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302	Color	48520102	Bio-Cide International, Inc.	OWN	
830.6303	Physical State	48520102	Bio-Cide International, Inc.	OWN	
830.6304	Odor	48520102	Bio-Cide International, Inc.	OWN	
830.6314	Oxidation/Reduction	44404003	Bio-Cide International, Inc.	OWN	
830.6315	Flammability				NR-Product does not contain combustible liquids

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Name and Title Connie Welch, Agent

Date 03/13/13

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# Date: March 13, 2013 EPA Reg No./ File Symbol 9804-9 Applicant's/Registrant's Name and Address: Bio-Cide International, Inc. ProOxine ProOxine Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6316	Explodabilty				NR-Product is not potentially explosive
830.6317	Storage Stability	44404004	Bio-Cide International, Inc.	OWN	
830.6319	Miscibility			OWN	NR-Product is not an emulsifiable liquid to be diluted with petroleum solvents
.6320	Corrosion Characteristics	44404004	Bio-Cide International, Inc.	OWN	
830.6321	Dielectric Breakdown				NR-Product is not an insulating conductive
830.7000	pH	48520102	Bio-Cide International, Inc.	OWN	
830.7100	Viscosity	48520102	Bio-Cide International, Inc.	OWN	
830.7300	Density/Relative Density	48520102	Bio-Cide International, Inc.	OWN	
870.1100	Acute Oral		Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal	46369701	Bio-Cide International, Inc.	OWN	

Signature Quele Vele	Name and Title Connie Welch, Agent	Date 03/13/13
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#### **DATA MATRIX**

EPA Reg No./ File Symbol 9804-9			Page 3 of 3
Product: ProOxine			
	Product:	Product:	

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation	46110402	Bio-Cide International, Inc.	OWN	
870.2500	Acute Dermal Irritation	46369702	Bio-Cide International, Inc.	OWN	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER	
870.2400	Acute Eye Irritation	46133801	Bio-Cide International, Inc.	OWN	

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Name and Title Connie Welch, Agent

Date 03/13/13



Ingredient: Chlorine Dioxide

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#### DATA MATRIX

Date: April 3, 2012	EPA Reg No./ File Symbol 9804-9	Page 1 of 3
Applicant's/Registrant's Name and Address:  Bio-Cide International, Inc.  Box 722170  Box 73070-8644	Product: ProOxine	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	151111
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
.1750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN ••	:
830.1800	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302	Color	48520102	Bio-Cide International, Inc.	OWN	•
830.6303	Physical State	48520102	Bio-Cide International, Inc.	OWN:	
830.6304	Odor	48520102	Bio-Cide International, Inc.	OWN	
830.6314	Oxidation/Reduction	44404003	Bio-Cide International, Inc.	OWN	997
830.6315	Flammability				NR-Product does not contain combustible liquids

Signature Com Well

Name and Title
Connie Welch, Agent
Connie Welch & Associates

Date 04/3/2012

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#### **DATA MATRIX**

Date: April 3, 2012	EPA Reg No./ File Symbol 9804-9	Page 2 of 3
Applicant's/Registrant's Name and Address:  Bio-Cide International, Inc.  Box 722170  Forman, OK 73070-8644	Product: ProOxine	
Ingredient: Chlorine Dioxide		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6316	Explodabilty				NR-Product is not potentially explosive
830.6317	Storage Stability	44404004	Bio-Cide International, Inc.	OWN	
830.6319	Miscibility			OWN	NR-Product is not an emuls fiable liquid to be diluted with petroleum solvents
830.6320	Corrosion Characteristics	44404004	Bio-Cide International, Inc.	OWN	•
830.6321	Dielectric Breakdown			i.	NR-Product is not an insulating conductive
830.7000	pH	48520102	Bio-Cide International, Inc.	OWN	
830.7100	Viscosity	48520102	Bio-Cide International, Inc.	OWN	E ST Dell'S
830.7300	Density/Relative Density	48520102	Bio-Cide International, Inc.	OWN	
870.1100	Acute Oral	46369701	Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal	46369701	Bio-Cide International, Inc.	OWN	

Signature	Name and Title	Date
	Connie Welch, Agent	04/3/2012
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**DATA MATRIX** 

# Date: April 3, 2012 Applicant's/Registrant's Name and Address: Bio-Cide International, Inc. Box 722170 Norman, OK 73070-8644 Page 3 of 3 Product: ProOxine

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status Note	е
870.1300	Acute Inhalation	46110402	Bio-Cide International, Inc.	OWN	
870.2500	Acute Dermal Irritation	46369702	Bio-Cide International, Inc.	OWN	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER •	
870.2400	Acute Eye Irritation	46133801	Bio-Cide International, Inc.	OWN	



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Name and Title Connie Welch, Agent Connie Welch & Associates

Date 04/3/2012



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Applicant's/Registrant's Name and Address:	EPA Reg No./ File Symbol 9804-9	Page 1 of
Bio-Cide International, Inc. P.O. Box 722170 Horman, OK 73070-8644	Product: ProOxine	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		
870.1300	A outo Inhalasi i B		Submitter	Status	Note
	Acute Inhalation in Rats		Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal in Rabbits		Bio-Cide International, Inc.		
870.2400	Acute Eye Irritation in Rabbits			OWN	
870.2500			Bio-Cide International, Inc.	OWN	
	Acute Dermal Irritation in Rabbits	THE PARTY OF THE P	Bio-Cide International, Inc.	OWN	ENCLASED IN
870.1100	Acute Oral	49079301			E ST. DIST.
830.1700	Preliminary Analysis		Bio-Cide International, Inc.	OWN	
	Tremimary Analysis	44404002	Bio-Cide International, Inc.	OWN	
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Name and Title Connie Welch, Agent





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	D	ATA MATRIX			
Date			EPA Reg No./File Symbol 9804-9		Page <sub>1</sub> of 1
Applicant's/Registrant's Name & A Bio-Cide Interna	ddress ational, Inc. P.O. Box 722170 Norman, OK 73070		Product ProOxine		
Ingredient Chlorine Dioxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition		Bio-Cide International, Inc.	Own	
830.1600	Description of Materials Used to Produce the Product		Bio-Cide International, Inc.	Own	
830.1620	Description of Production Process		Bio-Cide International, Inc.	Own	40.00
830.1650	Description of Formulation Process		Bio-Cide International, Inc.	Own	
830.1670	Discussion of Formation of Impurities		Bio-Cide International, Inc.	Own	
830.1750	Certified Limits		Bio-Cide International, Inc.	Own	
830.1800	Enforcement Analytical Method		Bio-Cide International, Inc.	Own	
830,6302	Color		Bio-Cide International, Inc.	Own	
830.6303	Physical State		Bio-Cide International, Inc.	Own	
830.6304	Odor		Bio-Cide International, Inc.	Own	
830,7000	pH of Water Solutions or Suspensions		Bio-Cide International, Inc.	Own	
830.7100	Viscosity		Bio-Cide International, Inc.	Own	
830.7300	Density/Relative Density/Bulk Density		Bio-Cide International, Inc.	Own	
		•:•			
//	P. Rengo  lectronic and Paper versions available. Submit only Paper version.		Marne and Title  Jim Ringo, Director, Regulatory Affairs		Date 5-/24/11

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# U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address. DATA MATRIX Date: July 2, 2013 EPA Reg No./ File Symbol 9804-9 Page 1 of 1 Applicant's/Registrant's Name and Address: Bio-Cide International, Inc. P.O. Box 722170 Norman, OK 73070-8644 Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
330.1620	Description of Production Process		Bio-Cide International, Inc.	OWN	
	: : •••				
	••••••				

Signature
Name and Title
Connie Welch, Agent

Date

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# DATA MATRIX Date: July 22, 2014 EPA Reg No./ File Symbol N/A Applicant's/Registrant's Name and Address: Bio-Cide International, Inc. P.O. Box 722170 Norman, OK 73070-8644 Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
Generic						
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN		
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN		
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN		
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	1	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN .		:::
830.1700	Preliminary Analysis	48970801	Bio-Cide International, Inc.	OWN	•	•••••
830.1750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN '	• •	
830.1800	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	•	••••
830.6302	Color	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD		
830.6303	Physical State	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	1	
830.6304	Odor	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD .		
830.7200	Melting Point	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD		
830.7220	Boiling Point	41467601, 02	Chlorine Dioxide/ Sodium Chlorite RED	OLD		
830.7300	Density	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD		
830.7840, 7860	Solubility	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD		

Signature

Name and Title
Connie Welch, Authorized Agent

Date
07/22/14



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#### **DATA MATRIX** Date: July 22, 2014 EPA Reg No./ File Symbol N/A Page 2 of 5 Applicant's/Registrant's Name and Address: Product: Bio-Cide International, Inc. P.O. Box 722170 **Chlorine Dioxide** Norman, OK 73070-8644 Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Т	Note	
830.7950	Vapor Pressure	41467601,02	Chloring Digwids/ St. J. Cl. 1: DDD			11010	
830.7550, 7560, 7570	Partition Coefficient (Octanol/Water)	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD			
830.7000	pH (Octanor water)		Chlorine Dioxide/ Sodium Chlorite RED	OLD			
830.6313	Stability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD			
830.6314		41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD			
330.6315	Oxidizing/Reduction Action	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	•	•	
330.6316	Flammability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD		•	
- Commence of the Commence of	Explodability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	-	••	
330.6317	Storage Stability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	•		*****
830.7000	pH	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED			•	•
330.7100	Viscosity	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED				••••
330.7300	Density/Relative Density	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	•		
370.1100	Acute Oral	43558601		OLD			
370.1200	Acute Dermal	40168704	Chlorine Dioxide/ Sodium Chlorite RED	4-2		:.	
70.1300	Acute Inhalation		Chlorine Dioxide/ Sodium Chlorite RED	OLD	•		
370.2500	Acute Dermal Irritation	42484101	Chlorine Dioxide/ Sodium Chlorite RED	OLD			
370.2600		40168704	Chlorine Dioxide/ Sodium Chlorite RED	OLD			
370.2400	Skin Sensitization	48450701, 02	BPD Registration Group	PER			
	Acute Eye Irritation	43441903	Chlorine Dioxide/ Sodium Chlorite RED	OWN	8		
370.3100	90-Day Oral (gavage)-Rat	42301601	Chlorine Dioxide/ Sodium Chlorite RED	OLD			

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Com Welet	Name and Title Connie Welch, Authorized Agent	Date 07/22/14
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#### DATA MATRIX Date: July 22, 2014 EPA Reg No./ File Symbol N/A Page 3 of 5 Applicant's/Registrant's Name and Address: Product: Bio-Cide International, Inc. P.O. Box 722170 **Chlorine Dioxide** Norman, OK 73070-8644 Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
870.3465	28/90-Day Inhalation- Rat- "On the Action of CIO2 at low concentrations on laboratory animals"; "On the Toxicology of Chlorine Dioxide"		Chlorine Dioxide/ Sodium Chlorite RED	PL		
870. 3700	Developmental Toxicity Rat – Effects of Chlorine Dioxide on Thyroid function in Neonatal Rats.		Chlorine Dioxide/ Sodium Chlorite RED	PL		
870.3700	Developmental Toxicity - Rabbit	41715701	Chlorine Dioxide/ Sodium Chlorite RED	OLD		••••
870.3800	Two-generation Reproduction-Rat	45358901	Chlorine Dioxide/ Sodium Chlorite RED			• •
870.5265	Bacterial Reverse Mutation Assay- Evaluation of Chemicals Used for Drinking Water Disinfection for Production of Chromosomal Damage and Sperm-Head abnormalities in Mice		Chlorine Dioxide/ Sodium Chlorite RED	PL		
870.5300	Detection of Gene Mutations in Somatic Cells	ACC265867	Chlorine Dioxide/ Sodium Chlorite RED	OLD	•	

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Cari Well	Name and Title Connie Welch, Authorized Agent	Date 07/22/14
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5385	Micronucleus Assay- Evaluation of Chemicals Used for Drinking Water Disinfection for Production of Chromosomal Damage and Sperm-Head abnormalities in Mice		Chlorine Dioxide/ Sodium Chlorite RED	PL	••••
870.4200	Carcinogenicity	Waiver Request	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER ••	
870.1300	Technical Sodium Chlorite, Acute Inhalation Toxicity Study in Rats	49386301	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	•
850.1300	Fish Early Life-Stage Testing- Freshwater	49270201	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
850.4225	Seedling Emergence Does-Response in Rice	49270202	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
850.4250	Vegetative Vigor Dose-Response in Rice	49270203	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	••••
850. 5400	Acute algal dose-response toxicity	49270204 49270205	ACC-Sodium Chlorite-Chlorine Dioxide Panel	PER	•

Signature One Over	Name and Title Connie Welch, Authorized Agent	Date 07/22/14
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
850.2100	Avian Acute Oral Toxicity Test (Quail/Duck)	ACC 259373, ACC 257341, ACC 257378, MRID 31610, ACC 254177, ACC 252854	Chlorine Dioxide/Sodium Chlorite RED	OLD	•:••	
850.1075	Fish Acute Toxicity- Freshwater (Rainbow Trout)	94068007, ACC 254181, ACC 254180, ACC69810, ACC 253379, 9406006	Chlorine Dioxide/Sodium Chlorite RED	OLD		
850.1010	Acute Aquatic Invertebrate Toxicity	146162, 141149, 131350, ACC 254182, 94068009	Chlorine Dioxide/Sodium Chlorite RED	OLD		

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